

High Energy Fe Battery System for Telecom

U3 Series

- ETSI standard compliant
- 3U rack-mount design
- High energy density and operational reliability
- Lifetime more than 10 years at +25°C
- Build-in battery control for efficient operation
- Comprehensive communication system
- Compatible with standard telecom equipment
- ROHS compliance
- Supports parallel connection between batteries



ACT U3 Series high energy, high performance backup battery is a 3U rack-mounted Fe battery system designed to provide power back-up for telecom equipment. It has excellent safety, high energy density, a long life cycle, and good temperature performance.

It features excellent safety and high reliability, and is applicable for large base stations, data center, energy storage applications, outdoor cupboards, and wind-solar hybrid system.

This battery saves on cabinet space, and has a low weight for pole-mounted sites. It does not require an active cooling system, and its simplified power system does not require a BFU.

U3 Series uses the RS485 communication interface, allowing users to monitor the battery's current, voltage, temperature, and other operation information remotely.

The battery line complies with comprehensive international quality system: ISO 14001/ISO9001/TS16949 and is carried out on established industrial production lines, which satisfies the strictest requirement on the Lithium ion battery.

Features

- Current detection while charging and discharging
- Hardware protection
- Discharge control
- Charge control
- Cell balance
- Reverse protection
- Cell voltage detection
- Temperature detection
- Communication(RS485)
- Operating state display of system (LED)
- PACK voltage detection
- Fault alarm

Telecom Application



Specifications

Nominal Characteristics

Nominal Voltage	48 V
Capacity	50 [C/5][Ah]
Energy	2560 [C/5][WH]

Electrical Characteristics

Voltage Window	40 ~ 57.6 V
Charge Voltage	57.6 V
Max Charge Current	1 C
Max Output Power	2500 W
Recharge Time	10A × 6 hr (standard)

Discharge Current at Various Back-up Times

1 hr	1 C
2 hr	0.5 C
4 hr	0.25 C

Operating Conditions

Lifetime (at +25°C)	>15 years
Cycle Life (100% DOD, +25°C)	2800
Operating Temperature	Charge: -10 ~ +60°C Discharge: -20 ~ +60°C

Transport Regulation Compliance	UN3480
Storage Temperature and Duration	12 months at +25°C 6 months at +40°C
EMC Standard Compliance	EN 6100 Chapter 4.2, 4.3, 4.5, 4.6 / EN55022
Safety Standard Compliance	CE / UL 1642 / UN 38.3
Protection Class	IP30

Mechanical Characteristics

Dimensions (W × H × D)	482.6 mm × 130 mm × 400 mm
Weight	35 kg

Ordering Information

Product name

U3C-50P-A

Product description

U3C Series 50AH Standard Backup Battery Power 3U rack-mount Fe battery system for telecom application



Ascent Communication Technology Ltd

AUSTRALIA

140 William Street, Melbourne
Victoria 3000, AUSTRALIA
Phone: +61-3-8691 2902

CHINA

Unit 1933, 600 Luban Road
200023, Shanghai CHINA
Phone: +86-21-60232616

EUROPE

Pfarrer-Bensheimer-Strasse 7a
55129 Mainz, GERMANY
Phone: +49 (0) 6136 926 3246

HONG KONG SAR

Unit 9, 12th Floor, Wing Tuck Commercial Centre
177 Wing Lok Street, Sheung Wan, HONG KONG
Phone: +852-2851 4722

USA

2710 Thomes Ave, Cheyenne
WY 82001, USA
Phone: +1-203 816 5188

VIETNAM

15 /F TTC Building, Duy Tan Street, Cau Giay Dist.
Hanoi, VIETNAM
Phone: +84 243 795 5917

WEB: www.ascentcomtec.com **EMAIL:** sales@ascentcomtec.com

Specifications and product availability are subject to change without notice.
Copyright © 2016 Ascent Communication Technology Limited. All rights reserved.
Ver. ACT_U3C LFP_Battery_Datasheet_V1b_Apr_2016